

FIG. 1

FIG. 1 is a block diagram of a network architecture.

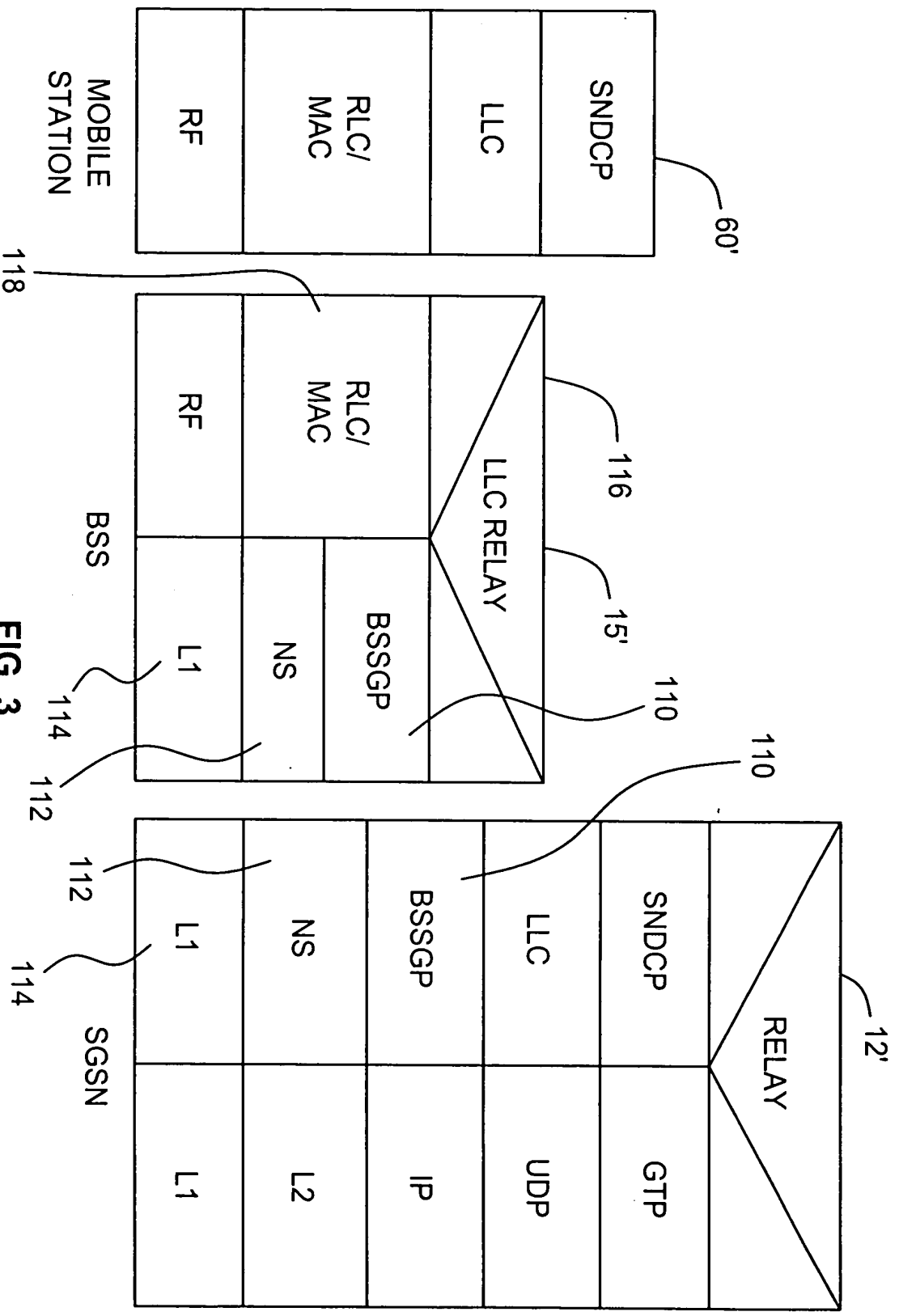


FIG. 3
(PRIOR ART)

FIG. 3 is a block diagram of a prior art protocol stack architecture.

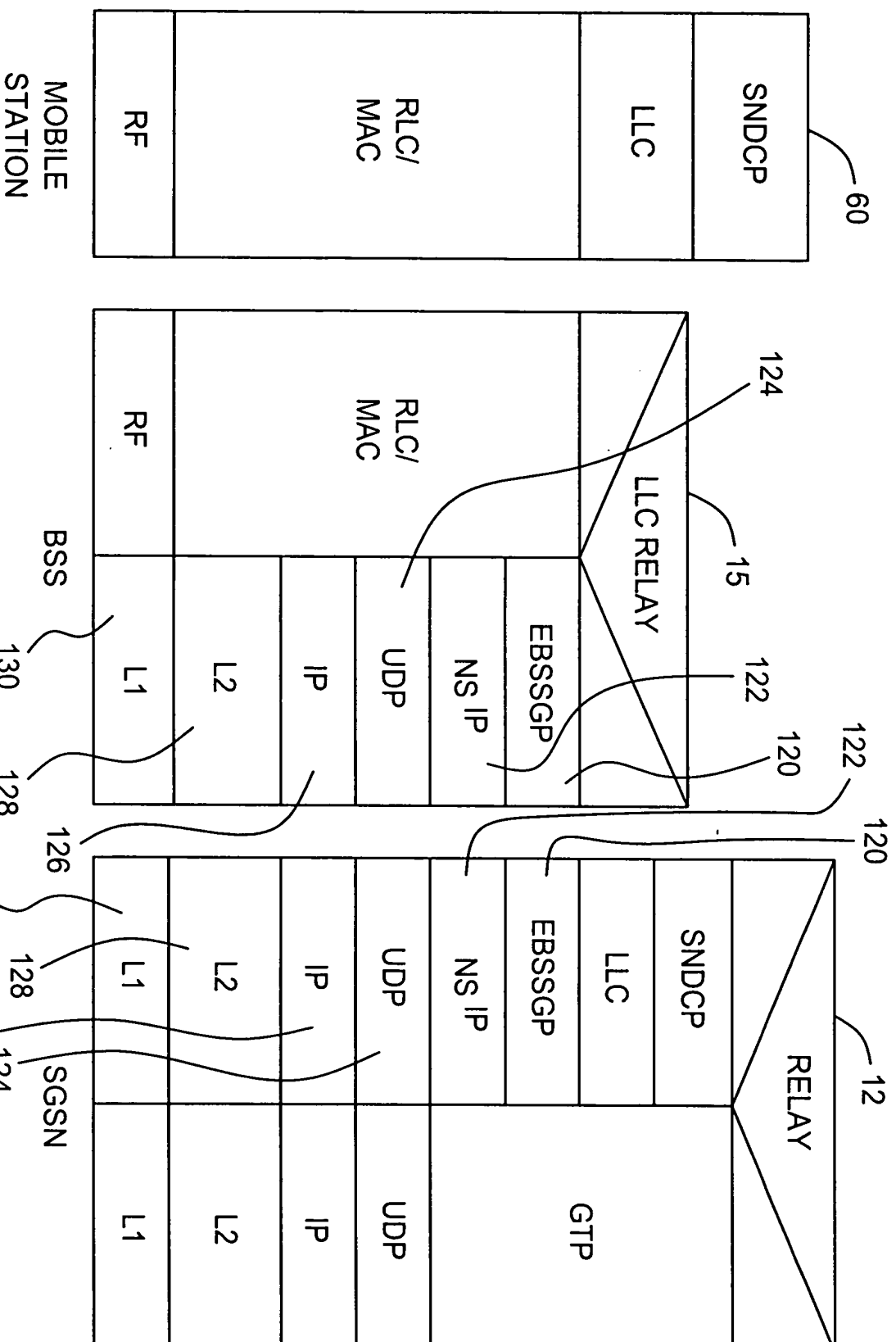


FIG. 4

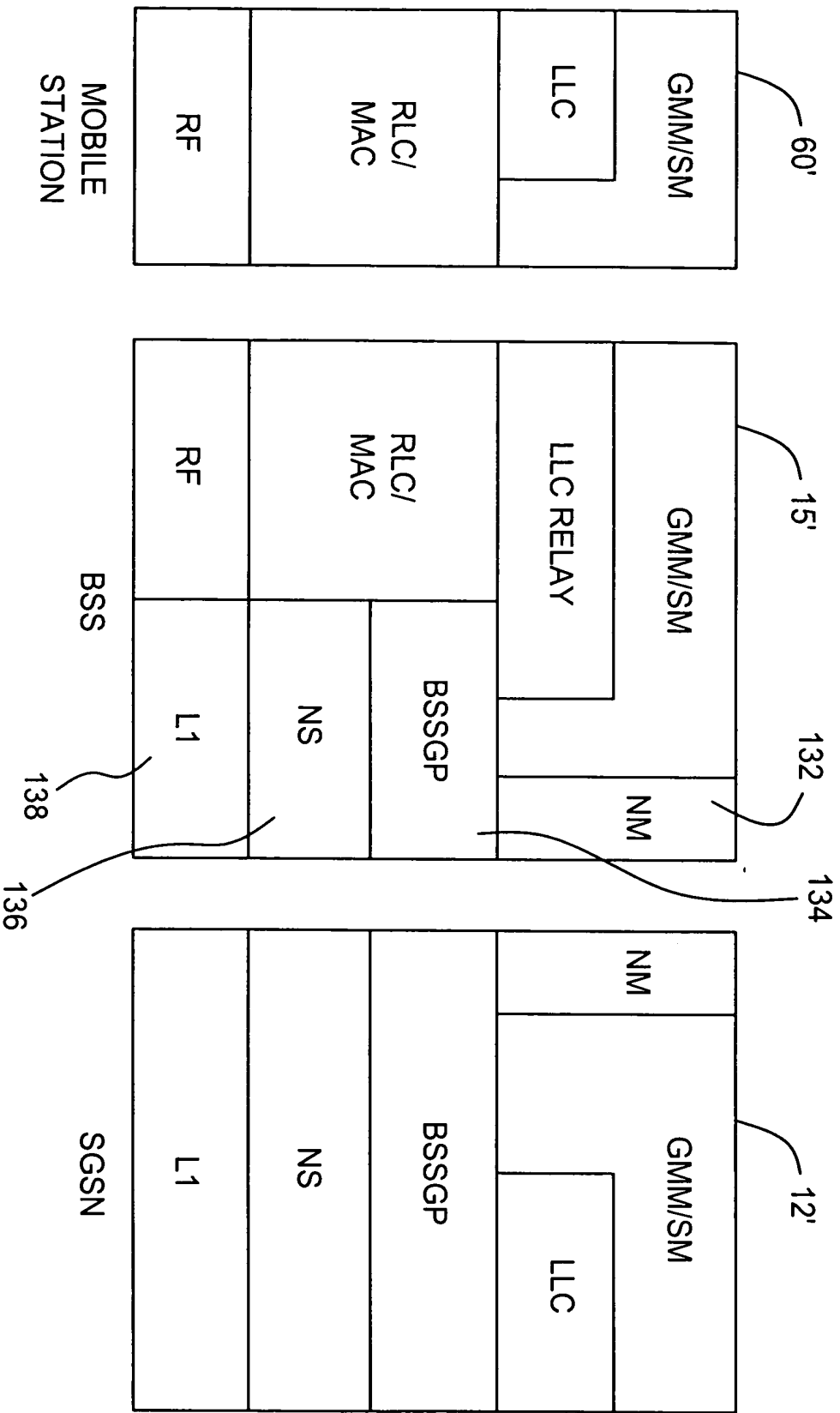


FIG. 5
(PRIOR ART)

FIG. 5 is a block diagram of a network architecture showing a Mobile Station (60), a Base Station System (BSS) (15), and a Serving GPRS Support Node (SGSN) (12). The Mobile Station (60) includes a GMM/SM layer, an LLC layer, an RLC/MAC layer, and an RF layer. The BSS (15) includes a GMM/SM layer, an LLC RELAY layer, an RLC/MAC layer, an RF layer, an NM layer, a BSSGP layer, an NS layer, and an L1 layer. The SGSN (12) includes an NM layer, a GMM/SM layer, an LLC layer, a BSSGP layer, an NS layer, and an L1 layer. The Mobile Station (60) is connected to the BSS (15) via a line labeled 132. The BSS (15) is connected to the SGSN (12) via a line labeled 134. The BSS (15) is also connected to the SGSN (12) via a line labeled 136. The BSS (15) is further connected to the SGSN (12) via a line labeled 138. A bracket labeled 134 groups the NM, BSSGP, NS, and L1 layers of the BSS (15). A bracket labeled 136 groups the LLC RELAY, RLC/MAC, and RF layers of the BSS (15). A bracket labeled 138 groups the NM, BSSGP, NS, and L1 layers of the BSS (15).

NS-BLOCK				
300				
INFORMATION ELEMENT	PRESENCE	FORMAT	LENGTH	
302 PDU TYPE	M	V	1	
304 CAUSE	M	TLV	3	
306 NSEI	M	TLV	4	
308 NS IP IP ADDRESS	M	TLV	6-18	
310 NS IP IP ADDRESS	O	TLV	6-18	

FIG. 8A

NS-BLOCK-ACK				
320				
INFORMATION ELEMENT	PRESENCE	FORMAT	LENGTH	
322 PDU TYPE	M	V	1	
324 NS IP IP ADDRESS	M	TLV	6-18	
326 NS IP IP ADDRESS	C	TLV	6-18	

FIG. 8B

NS-PROV				340	
INFORMATION ELEMENT	PRESENCE	FORMAT	LENGTH		
342 PDU TYPE	M	V	1		
344 CAUSE	M	TLV	3		
346 NSEI	M	TLV	4		
348 NS IP IP ADDRESS	M	TLV	6-18		
350 NS IP IP ADDRESS	C	TLV	6-18		

FIG. 9A

NS-PROV-ACK				360	
INFORMATION ELEMENT	PRESENCE	FORMAT	LENGTH		
362 PDU TYPE	M	V	1		
364 NSEI	M	TLV	4		
366 NS IP IP ADDRESS	M	TLV	6-18		

FIG. 9B

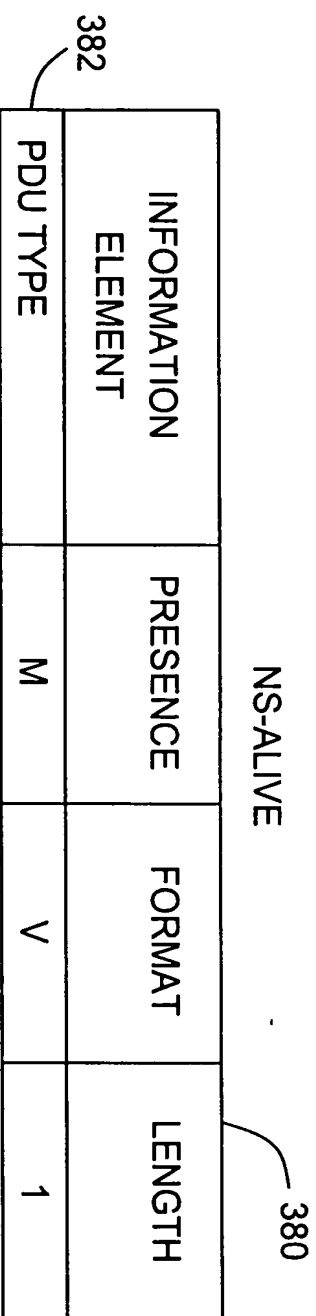


FIG. 10A

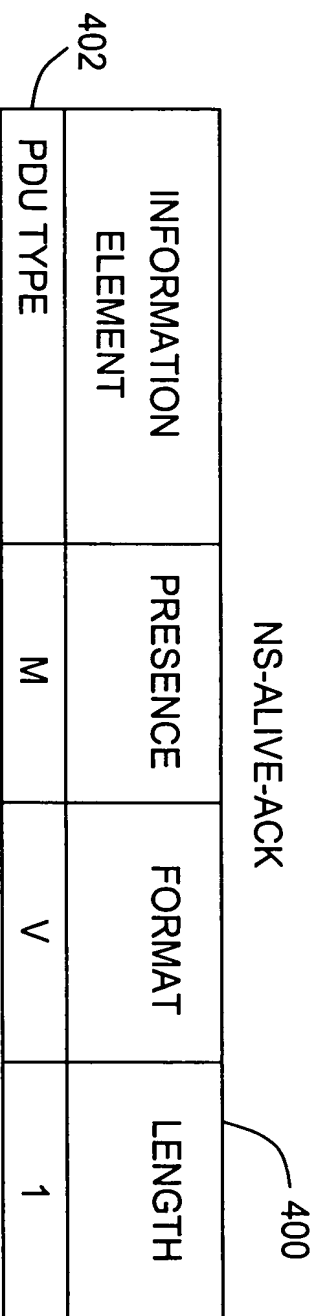


FIG. 10B

NS-UNBLOCK			
INFORMATION ELEMENT	PRESENCE	FORMAT	LENGTH
PDU TYPE	M	V	1
NSEI	M	TLV	4
NS IP ADDRESS	M	TLV	6-18
NS IP ADDRESS	O	TLV	6-18

FIG. 11A

NS-UNBLOCK-ACK			
INFORMATION ELEMENT	PRESENCE	FORMAT	LENGTH
PDU TYPE	M	V	1
NSEI	M	TLV	4
NS IP ADDRESS	M	TLV	6-18
NS IP ADDRESS	C	TLV	6-18

NS-UNITDATA				460
INFORMATION ELEMENT	PRESENCE	FORMAT	LENGTH	
462 PDU TYPE	M	V	1	
464 SPARE OCTET	M	V	1	
466 BVCI	M	V	2	
468 NS-SDU	M	V	1-?	

FIG. 12

NS-STATUS				480
INFORMATION ELEMENT	PRESENCE	FORMAT	LENGTH	
482 PDU TYPE	M	V	1	
484 CAUSE	M	TLV	3	
486 NSEI	M	TLV	4	
488 NS IP IP ADDRESS	C	TLV	6-18	
490 NS PDU	C	TLV	3-?	
492 BVCI	C	TLV	4	

FIG. 13

502	INFORMATION ELEMENT	PRESENCE	FORMAT	LENGTH
504	PDU TYPE	M	V	1
506	BVCI	M	TLV	4
508	CAUSE	M	TLV	3
510	CELL IDENTIFIER	C	TLV	10
512	LA MULTICAST SUPPORT	O	TLV	3
514	RA MULTICAST SUPPORT	O	TLV	3
516	QOS PROFILE / UDP PORT	O	TLV	5-?
	VENDOR SPECIFIC IE	O	TLV	3-?

FIG. 15

522	INFORMATION ELEMENT	PRESENCE	FORMAT	LENGTH
524	PDU TYPE	M	V	1
526	BVCI	M	TLV	4
528	CELL IDENTIFIER	C	TLV	10
530	LA MULTICAST ADDRESS	C	TLV	6-18
532	RA MULTICAST ADDRESS	C	TLV	6-18
534	VENDOR CODE	O	TLV	4
	VENDOR SPECIFIC IE	O	TLV	3-?

FIG. 16

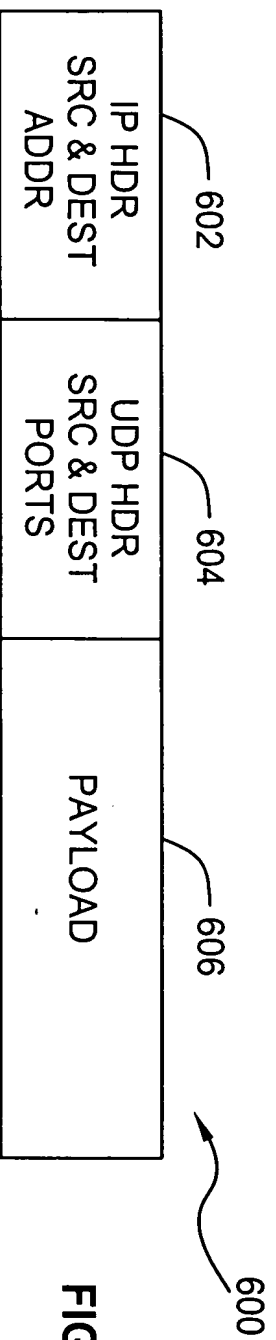


FIG. 17

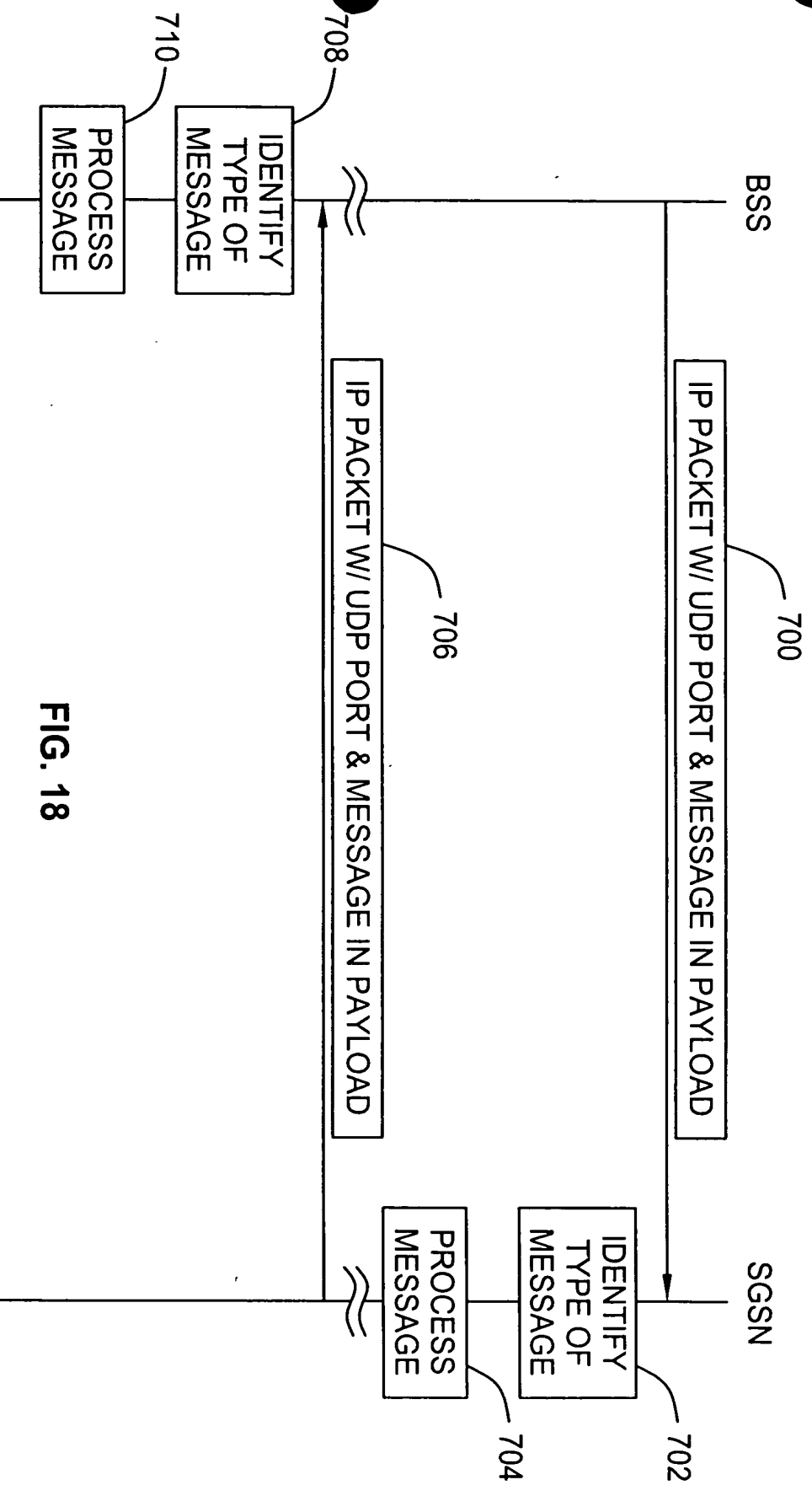


FIG. 18

[illegible]

